



FLIGHT REPORT

NORTH DAKOTA ATMOSPHERIC RESOURCE BOARD
SFN 50864(12/2014)

ENGINES OFF 07:26:08	HOURS 1.82		PAGE # 1	OF 2
ENGINES ON 05:37:01	DRY ICE RATE 0	1 GEN 0.02	2 GEN 0.73	
TOTAL TIME 01:49:07	DRY ICE (lbs) 0.00	EJCTBL (grams) 0	BIP (grams) 375	

DATE June 21, 2017		DISTRICT 1	SEED # 2	PILOT Steffany Royal				COPILOT Dakotah Osborn				PURPOSE H	REMARKS R - Rain H - Hail O - Other M - Maintenance C - Reconnaissance
Time (HH:MM)	EVENT #	LATITUDE (deg)	LONGITUDE (deg)	CLD BASE (kft)	ALTITUDE (KFT)	UPDRAFT (FT/MIN)	TEMP (°C)	PRECIP CODE**	DRY ICE (sec)	FLARES		WINTIP GEN (#)	
										EJC	BIP		
05:37:32		46.17075	-103.3042		2.9					0	0	0	Engines on in Bowman.
05:47:32		46.20439	-103.2982		5.5					0	0	0	
05:54:40	1	46.22380	-103.5733	13	10.5	0	5	0		0	0	1	Left burner on.
05:55:38	2	46.21560	-103.6109	13	11.1	0	5	0		0	0	2	Right burner on.
06:05:44		46.21974	-103.6233		11.7					0	0	2	
06:10:15		46.15907	-103.5496	13	11.9	700	0	3		0	0	2	
06:11:05	3	46.18620	-103.5297	13	11.9	800	0	3		0	1	2	BIP lit.
06:14:54	4	46.14763	-103.4695	13	11.7	800	0	3		0	1	2	BIP lit.
06:20:27	5	46.17037	-103.3263	13	11.8	700	0	3		0	1	2	BIP lit.
06:24:34	6	46.13542	-103.2527	13	11.9	700	0	3		0	1	2	BIP lit.
06:29:39	7	46.14082	-103.1468	13	11.7	700	0	4		0	1	2	BIP lit.
06:39:28	8	46.20087	-102.8543	13	11.8	0	0	4		0	0	0	Two burners off.
06:56:36		46.31986	-102.6315		7.3					0	0	0	

**PRECIPITATION INTENSITY

- 0 - No Precipitation
- 1 - virga only, precip not to ground
- 2 - rain shaft to surface, light
- 3 - rain shaft well established, but can be seen through
- 4 - heavy rain shaft, cannot be seen through

MISSION SUMMARY

A strong cell was approaching the western border of D1. However, a line of cells were developing ahead of the main one- making it difficult to launch and approach the hail threat. Once a gap opened up, we launched and headed towards the storm. Consistent inflow of 700-800 feet, a lot of lightning, and high cloud bases of around 13,000 ft characterized the storm. We seeded it with both burners and 5 BIP flares. As it pushed us out of district, we chose DIK for our RTB.

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